

INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR2005/000370

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/4164 A61K45/06 A61P17/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, MEDLINE, EMBASE, SCISEARCH, CANCERLIT BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 4 837 378 A (BORGMAN ROBERT J) 6 June 1989 (1989-06-06) column 2, line 38 - line 60 column 4, line 34 - line 52 column 6, line 36 - line 49 column 7, line 6 - line 43 tables I-A, I-B, III claims 1-4, 8, 11, 14-16 | 1-5, 7, 8, 10, 12 |
| X | WO 98/27960 A (GOODMAN MICHAEL ; BIOGLAN IRELAND R & D LTD (IE); LINDAHL AAKE (SE)) 2 July 1998 (1998-07-02) page 1, line 6 - line 16 page 7, line 8 - line 19 examples 1, 13 claims 1, 6, 7, 20, 30 | 1-5, 7, 8, 10, 12 |

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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

28 June 2005

Date of mailing of the international search report

17. 10. 2005

Name and mailing address of the ISA

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See supplemental sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1,10 - 12 (in part of)

Remark on Protest

☐

The additional search fees were accompanied by the applicant's protest.

☐

No protest accompanied the payment of additional search fees.

Box III.4

Claims 1-10, 12 (in part)

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-10 (in part), 12 (in part)

The use of metronidazole for preparing a pharmaceutical composition suitable for treating diseases involving at least one receptor selected from the group which consists of receptor IL-8RB and receptor PAC-1, characterised in that said composition does not contain an additional active agent as defined in the second invention.

2. claims: 1-10 (in part), 11 (in full), 12 (in part)

The use of metronidazole for preparing a pharmaceutical composition suitable for treating diseases involving at least one receptor selected from the group which consists of receptor IL-8RB and receptor PAC-1, characterised in that said composition further contains an additional active agent selected from the group which consists of antibiotics, antibacterial agents, antiviral agents, antiparasitic agents, antifungal agents, anaesthetics, pain killers, anti-allergic agents, retinoids, anti-free radical agents, antipruritic agents, keratolytic agents, antiseborrheic agents, antihistamine agents, sulphides, immune suppressants or anti-proliferative agents.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| X | CA 2 161 737 A (STIEFEL CANADA INC) 1 May 1997 (1997-05-01) page 1, line 6 - line 27 page 4, line 9 - page 8, line 15 page 11, line 15 - page 14, line 7 page 18, line 12 - line 19 claims | 1-5,7,8, 10,12 |
| X | ----- COHEN A F ET AL: "Diagnosis and treatment of rosacea" JOURNAL OF THE AMERICAN BOARD OF FAMILY PRACTICE 2002 UNITED STATES, vol. 15, no. 3, 2002, pages 214-217, XP008036097 ISSN: 0893-8652 table 1 page 216, column 1, paragraph 2 | 1-7,10, 12 |
| X | ----- EGAN C A ET AL: "Rosacea induced by beclomethasone dipropionate nasal spray" INTERNATIONAL JOURNAL OF DERMATOLOGY 1999 UNITED KINGDOM, vol. 38, no. 2, 1999, pages 133-134, XP008036086 ISSN: 0011-9059 the whole document | 1-8,10, 12 |
| X | ----- ROHRICH R J ET AL: "Rhinophyma: Review and update" PLASTIC AND RECONSTRUCTIVE SURGERY 01 SEP 2002 UNITED STATES, vol. 110, no. 3, 1 September 2002 (2002-09-01), pages 860-870, XP008036088 ISSN: 0032-1052 page 860, column 2, paragraph 2 - paragraph 3 page 863, column 1, paragraphs 1,3 figure 3 page 867, column 1, paragraph 3 - column 2, paragraph 1 | 1-10,12 |
| X | ----- BLOUNT B W ET AL: "Rosacea: A common, yet commonly overlooked, condition" AMERICAN FAMILY PHYSICIAN 01 AUG 2002 UNITED STATES, vol. 66, no. 3, 1 August 2002 (2002-08-01), pages 435-440+442, XP008036105 ISSN: 0002-838X table 2 page 438, column 2, paragraph 2 | 1-5,7,8, 10,12 |

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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|------------|--|-----------------------|
| X | MOULIN G ET AL: "Rhinophyma" ANNALES DE DERMATOLOGIE ET DE VENEREOLOGIE 1991 FRANCE, vol. 118, no. 4, 1991, pages 319-322, XP008036089 ISSN: 0151-9638 page 319, column 1, paragraph 1 - column 2, paragraph 1 page 321, column 1, paragraph 6 ----- | 1-5,9, 10,12 |
| X | MADDIN S: "A COMPARISON OF TOPICAL AZELAIC ACID 20% CREAM AND TOPICAL METRONIDAZOLE 0.75% CREAM IN THE TREATMENT OF PATIENTS WITH PAPULOPUSTULAR ROSACEA" JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY, C.V. MOSBY, ST. LOUIS, MO, US, vol. 40, no. 6, PART 1, June 1999 (1999-06), pages 961-965, XP008016063 ISSN: 0190-9622 abstract page 962, column 1, paragraph 2 page 963, column 1, paragraph 2 figure 1 page 963, column 2, last paragraph - page 964, column 1, paragraph 2 table II page 965, column 1, paragraphs 2,4 ----- | 1-8,10, 12 |
| X | US 5 849 776 A (ALLEC JOSIANE ET AL) 15 December 1998 (1998-12-15) column 1, line 4 - line 30 column 1, line 45 - line 48 column 1, line 66 - column 2, line 4 claims 2,4,6,8,10 ----- | 1-5,10, 12 |
| X | US 6 365 616 B1 (RICE JOHN M ET AL) 2 April 2002 (2002-04-02) column 1, line 10 - line 15 column 7, line 31 - line 67 column 9, line 14 - line 19 column 12, line 48 - line 64 column 15, line 11 - line 21 column 16, line 12 - line 31 table 1; compound 2 example 8 claims 1,10,23,24,27,29 ----- | 1,2,4, 10,12 |

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| X | EP 1 206 937 A (SHOEI CO LTD) 22 May 2002 (2002-05-22) page 2, paragraph 1 page 4, paragraphs 20,22 page 5, paragraph 28 page 6, paragraph 34 - page 7 page 15, line 3 - line 4 examples 1-10 claims 1,8,20 ----- | 1,2,4, 10,12 |
| X | VALLENT K ET AL: "[Experience with intravenous metronidazole administration in the preoperative care of surgery of the large intestine]" ZENTRALBLATT FUR CHIRURGIE. 1983, vol. 108, no. 20, 1983, pages 1293-1298, XP008036094 ISSN: 0044-409X abstract page 1297, paragraph 1 - paragraph 2 ----- | 1,2 |
| P,X | WO 2004/112780 A (GALDERMA RESEARCH & DEVELOPMENT, S.N.C; BARTHEZ, NATHALIE; ORSONI, SAN) 29 December 2004 (2004-12-29) page 1, lines 3-9 page 2, lines 6-8 page 3, lines 1-11 page 3, line 24 - page 4, line 2 page 4, lines 12-23 page 7, lines 13-19 page 8, lines 4-15 page 9, line 10 - page 10, line 15 page 12, lines 3-13 examples 1-5 claims 1-3,7-9 ----- | 1-8,10, 12 |

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Information on patent family members

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| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
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